# Index to Volume 19

## January to December 1969


A

Abbott, Bernard C. & Edward J. Devillez (*See* Bibliography), 11:1043
Abell, D. L. et al., Investigative Laboratory Programs in Biology, A position paper of the commission on undergraduate education in the biological sciences, 12:1104
Abramoff, P. et al., Investigative Laboratory Programs in Biology, A position paper of the commission on undergraduate education in the biological sciences, 12:1104
Abrahamson, Mark, *Book review* of Environmental Influences, 12:1123
Acetic Acid Bacteria, T. Asai, *Book brief* by James C. McDonald, 6:571
Adams, Lowell, *Book review* of Bio-Medical Telemetry, 2:179
Advances in Applied Microbiology, W. W. Umbreit, *Book review* by Daniel Simons, 2:179
Advances in Enzymology, F. F. Nord, *Book brief* by J. T. Madison, 11:1043
Advances in Virus Research, K. M. Smith & M. A. Lauffer, *Book review* by T. T. Hebert, 3:283
AIBS
  AIBS Meeting, 20th Annual, 4:337; 5:437; 6:531; 7:619
  AIBS Officers for 1969, 1:65
  American Fisheries Society, 7:642
  *BioScience* Announcement, John R. Olive, 5:441
  Election of Members-at-Large, 10:869
  Change of Command, John R. Olive, 12:1060
Alexander, Bruce K., *Book review* of Social Organization of Hamadryas Baboons, 4:373
Alexenberg, Melvin L., *Book review* of Teaching Children Science: An Inquiry Approach, 7:661
Alpha Helix, The: A Research Opportunity (Feature), Knut Schmidt-Nielsen, 1:59
American Environment, The, R. Nash, *Book review* by Joseph S. Larson, 4:374
Ammerman, C. B. et al., Compositional Analyses of Soils, Forages, and Cattle Tissues from Beef-Producing Areas of Eastern Panama, 7:616
Anderson, John D. et al., Sol-Gel Differences in Plasmodia of the Acellular Slime Mold, *Physarum polycephalum* (Research Report), 11:1003
Andrews, Ted F., *Book review* of Biological Science: An Inquiry into Life, BSCS Yellow Version, 5:476; *Book review* of Biological Science: Molecules to Man, BSCS Blue Version, 5:475; *Book review* of High School Biology, BSCS Green Version, 5:475
Animal Agents and Vectors of Human Disease, E. C. Faust, P. C. Beaver & R. C. Jung, *Book review* by Victor Sprague, 1:85
Animal Locomotion, Sir James Gray, *Book review* by Bernard S. Martof, 8:751
Araúz, Reina Torres de, Demographic and Dietary Data for Human Groups Inhabiting the Eastern Region of the Republic of Panama, 4:331
Arboles Communes de Puerto Rico y las Islas Virgenes, E. L. Little, Jr., F. H. Wadsworth & J. Marrero, *Book review* by William L. Stern, 2:186
Arditti, Joseph, *Book review* of An Introduction to the South African Orchids, 1:85
Aspects of Neural Ontogeny, A. F. W. Hughes, *Book review* by Earl Eldred, 3:275
Atlantic Salmon, The, A. Netboy, *Book review* by Willis King, 6:567
Atlas of the Domestic Turkey (*Meleagris gallopavo*): Myology and Osteology, E. B. Harvey, H. E. Kaiser & L. E. Rosenberg, *Book brief* by Alexander Wetmore, 6:572
Ayala, Francisco J., *Book review* of Evolutionary Biology, 11:1040

B

Bailey, Richard L. (*See* Letters), 3:201
Bainbridge, J. R. (*See* Letters), 9:770
Baker, Jeffrey J. W. et al. (*See* Letters), 5:400
Baker, Kenneth F., First International Congress of Plant Pathology, Part II, Root Diseases (Meeting Report) 3:261
Bargmann, Theodore J. et al., Sol-Gel Differences in Plasmodia of the Acellular Slime Mold, *Physarum polycephalum* (Research Report), 11:1003
Barker, Ann C., Oceanographic Aides (Feature), 1:61; The Stratton Report: Blueprint for Oceanography (Feature), 3:251, Policies for the Environment: Too Many Cooks? (Feature), 5:457; The Centralization of Science (Feature), 9:827; Academy Report on Technology Assessment (Capital Comment), 10:929; Biosatellite III (In Brief—In Biology), 11:1024; Focus, 6:553; 7:649; 8:737; 9:831; 10:925
Barker, Ann & Jo Ann Fowler, Technology Assessment, 10:923
Baron, F. J. (*See* Letters), 9:771
Barrnett, Russel J., *Book review* of Introduction to Chromatography, 5:478
Basic Principles of Molecular Genetics, I. H. Herskowitz, *Book review* by Al Slinkard, 4:378
Basic Research in the Soviet Union, Sharon M. Friedman (Feature), 6:549
Bears and Conservation: Realities and Recommendations (Feature) Gairdner B. Moment, 11:1019
Beers, Roland F., Jr., Miles Symposium on Molecular Biology (Meeting Report), 9:840
Behavior, W. G. Van der Kloot, *Book review* by P. B. Siegel, 2:179
Behavior and Physiology of Pinnipeds, The, C. E. Rice, *Book review* by Victor B. Scheffer, 11:1042
Behrens, O. K. (*See* Letters), 12:1057
Bennett, Jack, *Book review* of Topics in Population Genetics, 8:751
Ben-Yehoshua, Shimshon et al., Effect of 2-Chloroethanephosphonic Acid on Tomato Fruit Development and Maturation (Research Report), 1:49
Benson, Lyman, *Book review* of Flora of Alaska and Neighboring Territories, 3:274
Bern, Howard A. & W. Neil Holmes, U.S.-Japan Seminar on Endocrine Glands and Osmoregulation in Fishes (Meeting Report), 8:746
Berner, Leo, Jr., *Book review* of The Biology of Estuarine Animals, 4:374
Beyer, Robert E., *Book review* of The Biogenesis of Mitochondria, 1:82
BIAC Appoints New Council Members, 7:644
BIAC
  Aerial Photography, Mahlon G. Kelly & Alfred Conrod, 4:352
  Analog Recorders—To Buy and How to Buy?, John H. Busser, 3:246
  At the AIBS '69 Meeting You Can Learn about . . ., John H. Busser, 7:637
  BioInstrumentation, John H. Busser, 11:1014
  Controls and Servo-Systems, John H. Busser, 4:351
  Design Process, The, Some Guidelines, John H. Busser, 9:823
  Detection of Turbulence or Instability of Flow in Liquids, George C. Halikas, 9:826
  Four Years of BIAC, A Progress Report, John H. Busser, 12:1097
  Instrumentation in Small Colleges, John H. Busser, 10:917
  1968 Mailbag, The, John H. Busser, 1:53
  More on Biotechnicians, John H. Busser, 5:453
  On the Impact of Fallout on Theory, John H. Busser, 4:354
  Short Distance Telemetry, John H. Busser, 11:1013
  Simple Gas-Washing Bottle, A, Alan D. Conger, 1:54
  Sources of Instrumentation Information, John H. Busser, 8:729
  To Ground or Not to Ground, That Is the Question, John H. Busser, 2:145
  Valid Data from the Field, John H. Busser, 6:545
  Walk-in Refrigerator for Storage of Animals, 5:455
Bibliography
  Animal Behavior, Jack P. Hailman, 10:949
  Comparative Physiology, Edward J. Devillez & Bernard C. Abbott, 11:1043
  Ecology, Paul G. Pearson, 10:949
  Genetics, Robert D. Barnes, 12:1130
  Invertebrate Zoology, Thomas G. Gregg, 12:1131
  Primates, J. Metress, 1:90
  Vertebrate Morphology, Thomas S. Parsons, 9:851
Biocrystallography—An Interdisciplinary Challenge, Lawrence J. King, 6:505
Biodeterioration of Materials: Microbiological and Allied Aspects, A. H. Walters & J. J. Elphick, *Book review* by William Merrill, 11:1038
Bioelectronics, A Study in Cellular Regulations, Defense, and Cancer, A. Szent-Gyorgyi, *Book review* by Roger L. Heintz, 11:1038
Bioenvironmental Studies of the Radiological-Safety Feasibility of Nuclear Excavation, William E. Martin, 2:135

Biochemistry of Lignin Formation, Stewart A. Brown, 2:115
Biogenesis of Mitochondria, The, D. B. RODYN & D. WILKIE, *Book review* by Robert E. Beyer, 1:82
Biological Clocks, Michael Menaker, 8:681
Biological Science: An Inquiry into Life, BSCS Yellow Version, 2nd ed., J. A. MOORE et al., *Book review* by Ted F. Andrews, 5:476
Biological Science: Molecules to Man, BSCS Blue Version, 2nd ed., C. A. WELCH et al., *Book review* by Ted F. Andrews, 5:475
Biology, H. CURTIS, *Book review* by Burton E. Voss, 3:273
Biology of Animal Viruses, The, Vol. 1, Molecular and Cellular Biology, F. FENNER, *Book review* by G. C. Parikh, 3:273
Biology of Animal Viruses, The, Vol. II, The Pathogenesis and Ecology of Viral Infections, F. FENNER, *Book review* by Albert L. Fernelius, 6:571
Biology of Estuarine Animals, The, J. GREEN, *Book review* by Leo Berner, Jr., 4:374
Biology of Lower Invertebrates, A, W. D. RUSSELL-HUNTER, *Book review* by F. John Vernberg, 1:81
Biology of Marine Mammals, The, H. T. ANDERSON, *Book review* by Charles A. Long, 9:843
Biology of the Myxomycetes, W. D. GRAY & C. J. ALEXOPOULOS, *Book review* by T. W. Johnson, Jr., 7:660
Biomedical Aspects of Population Control, William D. McElroy, 1:19
Bio-Medical Telemetry, R. S. MACKAY, *Book review* by Lowell Adams, 2:179
Bio-Organic Chemistry, Readings from *Scientific American*, M. CALVIN & M. J. JORGENSON, *Book review* by Francis Joseph Weiss, 5:476
Biotic Regulation of Particulate and Solution Losses from a Forest Ecosystem, F. H. Bormann, G. E. Likens & J. S. Eaton, 7:600
Birkenholz, Dale et al. (*See* Letters), 9:773
Bishop, Beverly, *Book review* of Readings in Neurophysiology, 4:378; *Book review* of Serotonin, 9:845
Bloom, S. G. et al., Ecological Models Applied to Radionuclide Transfer in Tropical Ecosystems, 12:1086
Blue, W. G. et al., Compositional Analyses of Soils, Forages, and Cattle Tissues from Beef-Producing Areas of Eastern Panama, 7:616
Bolch, W. Emmett et al., The Retention of Selected Radionuclides from Dilute Solutions by Panamanian Clays, 7:623; Uptake, and Translocation of $^{134}Cs$, $^{59}Fe$, $^{85}Sr$ and $^{185}W$ by Banana Plants and a Coconut Plant Following Foliar Application, 7:613
Bormann, F. H. et al., Biotic Regulation of Particulate and Solution Losses from a Forest Ecosystem, 7:600
Bouck, G. Benjamin, *Book review* of The Membranes, Ultrastructure in Biological Systems, 9:844; *Book review* of Cell Walls and Membranes, 1:77
Böving, Bent G., *Book review* of A Survey of Embryology, 7:658
Bowers, Richard M. (*See* Letters), 4:301
B-P-H, G.H.M. LAWRENCE, A. F. G. BUCHHEIM, G. S. DANIELS & H. DOLEZAL, *Book review* by Robert S. Leisner, 2:184
Breidenbach, Andrew W. & Richard W. Eldredge, Research and Development for Better Solid Waste Management, 11:984
Brennan, James R., *Book review* of A Dictionary of Genetics, 6:569
Breyere, Edward J. & Wolfgang W. Sprenger, A Teaching Aid for Estimating Host Response to Allografts (Education) 8:723
Briggs, John C., The Sea-Level Panama Canal: Potential Biological Catastrophe, 1:44; (*See* Letters), 4:301
Brock, Thomas D. (*See* Letters), 3:201
Brown, Stewart A., Biochemistry of Lignin Formation, 2:115
Bryant, Peter J., *Book review* of Genetic Mosaics and Other Essays, 12:1126
Buettner-Janusch, John, *Book review* of A Handbook of Living Primates, 1:86
Bukovac, Martin J., *Book review* of Plant Science, An Introduction to World Crops, 12:1128
Bukovac, Martin J. et al., Promotion of Fruit Abscission with Abscisic Acid (Research Report), 9:815
Burgess, Robert L., *Book review* of Papers on Plant Growth and Development, 4:379
Burk, C. John, *Book review* of Lands Beyond the Forest, 10:939
Busser, John H. (*See* BIAC), 1:53; 2:145; 3:246; 4:351, 354; 5:453; 6:545; 7:637; 8:729; 9:823; 10:917; 11:1013; 12:1097; *Book review* of Principles of Applied Biomedical Instrumentation, 8:752
Butler, Philip A., Monitoring Pesticide Pollution, 10:889
Byers, Ross E. et al., Regulation of Fruit Growth with 2-Chloroethanephosphonic Acid (Research Report), 10:903

C

Calculation and Miscalculation of the Allometric Equation Reconsidered, W. L. Hafley, 11:974
Calpouzos, L., *Book review* of Fundamentals of Mycology, 10:942
Campbell, Richard D., *Book review* of Methods in Cell Physiology, 11:1040; *Book review* of The Nucleus, 3:276
Capital Comment
Academy Report on Technology Assessment, Ann C. Barker, 10:929
Everglades National Park, Jo Ann V. Fowler, 7:648
Gallup Poll on Environment, Ann C. Barker, 5:465
HR-35 To Establish a System of Institutional Grants, Ann C. Barker, 3:257
The Invisible University, Ann C. Barker, 12:1115
National Environmental Policy Act of 1969, Ann C. Barker, 8:741
NSF Budget Authorization Hearings, Ann C. Barker, 4:363
Pollution, Ann C. Barker, 6:555
Walter J. Hickel, Ann C. Barker, 2:159
Water Quality Improvement Act of 1969, Ann C. Barker, 11:1025
Caren, Linda B., *Book review* of Structural Concepts in Immunology and Immunochemistry (Molecular and Cellular Biology Series), 5:479
Carew, J. (*See* Letters), 12:1056
Carrier, Oliver, Jr., *Book review* of Introduction to Biological Chemistry, 1:78; *Book review* of Peptides and Proteins, 7:657
Carter, Dee A. et al., Sol-Gel Differences in Plasmodia of the Acellular Slime Mold, *Physarum polycephalum*, (Research Report), 11:1003
Carter, Jack L., The Impact of the New Curricular Programs on College and University Students and Professors (Education), 4:345
Cavallito, C. J., *Book brief* of Pyrrolizidine Alkaloids, 10:945
Cell and Molecular Biology, E. J. DUPRAW, *Book review* by Donald W. Misch, 6:569
Cell Walls and Membranes, H. J. ROGERS & H. R. PERKINS, *Book review* by G. Benjamin Bouck, 1:77
Cellular Aspects of Immune Reactions, Robert S. Speirs, 5:411
Centralization of Science, The (Feature), Ann C. Barker, 9:827
Chappelle, Emmett W. & Grace Lee Picciolo, *Book review* of Photophysiology: Current Topics, 3:277
Charnell, R. L. et al., Hydrologic Redistribution of Radionuclides Around a Nuclear-Excavated Sea-Level Canal, 9:799
Child, G. I. et al., The Structure of Tropical Forests in Panama and Colombia, 8:693; Elemental and Hydrologic Budgets of the Panamanian Tropical Moist Forest, 8:697
Chu, R. Ah et al., Soils and Agriculture of Eastern Panama and Northwestern Colombia, 6:529
Christian, John J. (*See* Letters), 2:106
Citrus Industry, The, Vol. II, Anatomy, Physiology, Genetics, and Reproduction, W. REUTHER, H. J. WEBBER & L. D. BATCHELOR *Book brief*, 6:572
Clark, William A., Museums for Living Microorganisms, 5:421
Clements, R. G. et al., The Structure of Tropical Forests in Panama and Colombia, 8:693; Elemental and Hydrologic Budgets of the Panamanian Tropical Moist Forest, 8:697
Clever, Ulrich, *Book review* of Primer of Chromosome Practice, 8:752
Coaxing History to Conduct Experiments, Edward S. Deevey, 1:40
Cole, Herbert, *Book review* of World Crop Protection, Vol. 1, Pests and Diseases, 12:1124
Cole, LaMont C., Progress (Editorial), 8:677; (*See* Letters), 2:108; Wooded Highway Medians (Editorial), 11:967; Thermal Pollution, 11:989
Comparative Biochemistry of the Flavonoids, J. B. HARBORNE, *Book review* by John H. McClendon, 2:181
Compositional Analyses of Soils, Forages, and Cattle Tissues from Beef-Producing Areas of Eastern Panama, W. G. Blue, C. B. Ammerman, M. J. Loaiza & J. F. Gamble, 7:616
Compositional Analysis of Selected Second-Growth Species from Lowland Guatemala and Panama, Samuel C. Snedaker & John F. Gamble, 6:536
Conger, Alan D. (*See* BIAC), 1:54
Congress and Environmental Deterioration: Immovable Object/Irresistible Force?, The (Features), Richard L. Ottinger, 6:554
Conrod, Alfred & Mahlon G. Kelly (*See* BIAC), 4:352
Cooper, W. C. et al., Promotion of Abscission of Orange Fruits by Cycloheximide as Related to Site of Treatment (Research Report), 5:443
Corcos, Alain F., *Book review* of Genetic Mosaics and Other Essays, 10:939
Core, Earl L., *Book review* of The Evolution and Classification of Flowering Plants, 3:278; *Book review* of A Flora of the Queen Charlotte Islands. Part I. Systematics of the Vascular Plants, Part II. Cytological Aspects of the Vascular Plants, 10:941
Corollary to the Dismal Theorem, A, Conrad Istock, 12:1079
Costales, Alfredo S. & F. Webster McBryde, Human Ecology of Northwestern Colombia (The Chocó), 5:432
Cowan, Richard S., *Book review* of Excursion Flora of the British Isles, 3:274
Cowser, K. E. et al., Predicting Radiation Dose Equivalents for Populations, I. Dose Models and Methods of Application, 3:238
Cox, Jackee, Health Aspects of the International Movement of Animals (Meeting Report), 4:370

Creager, Joan G. & Lindsey R. Harmon, Careers of Ph.D.'s in the Biosciences (Education), 10:910
Crossley, D. A., Jr. & David E. Reichle, Analysis of Transient Behavior of Radioisotopes in Insect Food Chains (Research Report), 4:341
Cultural Eutrophication Is Reversible, Arthur D. Hasler, 5:425
Current Topics in Developmental Biology, A. A. Moscona & A. Monroy, *Book review* by Jane Oppenheimer, 10:940
Cutler, Hugh C., Missouri Botanical Garden's 15th Systematics Symposium (Meeting Report), 5:471
Cytokinins and Their Relation to Other Phytohormones, David S. Letham, 4:309

D

Daddario, Emilio Q., Scientists and Legislators (Feature), 2:149
Daly, J. M., First International Congress of Plant Pathology, Part I. Physiology and Biochemistry of Parasitism (Meeting Report), 2:164
Davidson, Robert A., *Book review* of Real-Time Computers, 1:79
Davis, Graham J., *Book review* of Experimental Physiology, 4:380
Davis, Graham J., *Book review* of The Study of Life: An Introduction to Biology, 11:1039
Davis, John D., *Book review* of Methods for Assessment of Fish Production in Fresh Waters, 3:278
Davis, John D., *Book review* of Studies in the Structure, Physiology and Ecology of Molluscs, 10:944
Davis, Robert H., *Book review* of The Pineal, 9:845
Day, P. R., First International Congress of Plant Pathology, Part II. Genetics of Pathogenicity and Resistance (Meeting Report), 3:261
DDT: Affluent Enemy or Beneficial Friend? (Feature), Thomas H. Jukes, 7:640
DDT Goes to Trial in Madison, Charles F. Wurster, 9:809
DDT on Trial in Wisconsin, Part I (Feature), Bruce Ingersoll, 4:357
DDT on Trial in Wisconsin, Part II (Feature), Bruce Ingersoll, 8:735
Dean, J. M. et al., Freshwater Ecological Studies in Panama and Colombia, 9:804
Dedolph, Richard R. (*See* Letters), 9:772
DeFries, John C. (*See* Letters), 4:300
de la Guardia, Manuel D. et al., Regulation of Sex Expression in the Cucumber (Research Report), 2:141
Deevey, Edward S., Coaxing History to Conduct Experiments, 1:40
Delayed Hypersensitivity, J. L. Turk, *Book review* by Vernon E. Scholes, 1:81
Demographic and Dietary Data for Human Groups Inhabiting the Eastern Region of the Republic of Panama, Reina Torres de Araúz, 4:331
Departments of Botany, Passé?, W. Hardy Eshbaugh & Thomas K. Wilson, 12:1072
Devillez, Edward J. & Bernard C. Abbott (*See* Bibliography), 11:1043
Dictionary of Genetics, A, R. C. King, *Book review* by James R. Brennan, 6:569
Dimensions of the World Food Crisis, H. F. Robinson, 1:24
Distribution of C, H, N, P, Fe, Mn, Zn, Ca, Sr, and Sc in Plankton Samples Collected off Panama and Colombia, John H. Martin, 10:898
Dobzhansky, Theodosius, *Book review* of Evolution and the Genetics of Populations, Vol. I, Genetic and Biometric Foundations, 8:752
Dostal, H. C. et al., Regulation of Fruit Growth with 2-Chloroethanephosphonic Acid (Research Report), 10:903
Duever, M. J. et al., The Structure of Tropical Forests in Panama and Colombia, 8:693; Elemental and Hydrologic Budgets of the Panamanian Tropical Moist Forest, 8:697

E

Eaton, J. S. et al., Biotic Regulation of Particulate and Solution Losses from a Forest Ecosystem, 7:600
Ebert, James D., *Book review* of Lymphocyte Stimulation, 4:376
Echidnas, M. Griffiths, *Book review* by Richard H. Manville, 8:754
Ecological Adaptations for Breeding in Birds, D. Lack, *Book review* by John A. Wiens, 12:1123
Ecological Models Applied to Radionuclide Transfer in Tropical Ecosystems, G. E. Raines, S. G. Bloom & A. A. Levin, 12:1086
Ecology and Resource Management, Kenneth E. F. Watt, *Book review* by Frederick R. Swan, Jr., 1:78
Ecology of Populations, A. S. Boughey, *Book review* by John R. Tester, 5:480
Ecology of Soil Bacteria, an International Symposium, T. R. G. Gray & D. Parkinson, *Book review* by Jean-Alex Molina, 2:184
Ecotypes and Ecosystem Function, Calvin McMillan, 2:131
Eddington, L. C. (*See* Letters), 10:866
Editorials
  Attitude Lag, The, Eugene P. Odum, 5:403
  Biology in the Soviet Union, David M. Prescott, 9:775
  Birth Control Assistance Should Be a Right, not a Handout, Lester Goldstein, 6:501
  Control of Human Population Growth, David M. Prescott, 3:205
  Ethical Aspects of the Population Crisis, Karl Sax, 4:303
  Food, Overpopulation, and Irresponsibility, David M. Prescott, 2:111
  1969—In Retrospect, Robert S. Leisner, 12:1059
  Oceanography Prostituted by the Military, Philip Siekevitz & Alfred Sussman, 7:589
  Progress, LaMont C. Cole, 8:677
  Purpose of *BioScience*, The, David M. Prescott, 1:15
  Thoughts on Tax Exemption, Lester Goldstein, 10:871
  Wooded Highway Medians, LaMont C. Cole, 11:967
Edmisten, Joe A. (*See* Letters), 9:770
Education
  AIBS Visiting Biologists Programs, Elwood B. Ehrle, 10:907
  Career Guidance Activities of OBE, Howard J. Stein, 12:1103
  Careers of Ph.D.'s in the Biosciences, Joan C. Creager & Lindsey R. Harmon, 10:910
  Consultants Bureau, The, Edward J. Kormondy, 11:1007
  High School Preparation and College Biology, Pinchas Tamir, 5:447
  Impact of the New Curricular Programs on College and University Students and Professors, The, Jack L. Carter, 4:345
  Investigative Laboratory Programs in Biology, A position paper of the commission on undergraduate education in the biological sciences, C. E. Holt, P. Abramoff, L. V. Wilcox, Jr., & D. L. Abell, 12:1004
  National Task Force of Two-Year College Biologists, Elwood B. Ehrle, 10:909
  New Approach to Natural Science, Part I. The Physical Science Base, A, Alan S. Meltzer, 7:633
  New Approach to Natural Science, A, Part II. The Life Sciences, Paul R. Shilling, 7:634
  Office of Biological Education, The, Elwood B. Ehrle, 8:725
  Special Uses of Biology in Elementary School Curriculums, Elizabeth Wagner Reed, 9:820
  Teaching Aid for Estimating Host Response to Allografts, A, Edward J. Breyere & Wolfgang W. Sprenger, 8:723
  Use of Oxygen Electrode in Lecture or Student Laboratory to Demonstrate Properties of Mitochondria, John M. Foster, 6:541
  Wetness Gradient and the Germination of Seeds, A, Zachariah Subarsky, 11:1008
Ehrle, Elwood B., *Book review* of Radiation Biology, 1:77; Relationship of AIBS to Biology in the Two-Year Colleges (Meeting Report), 4:371; (*See* Letters), 7:584; *Book review* of The Flora of New England, 7:660; The Office of Biological Education (Education), 8:725; The Programs of OBE (Education), 9:819; AIBS Visiting Biologists Programs (Education), 10:907; National Task Force of Two-Year College Biologists (Education), 10:909
Ehrlich, Paul R. & John P. Holdren, Population and Panaceas, A Technological Perspective, 12:1065
Ehrlich, Paul et al. (*See* Letters), 5:400
Eldred, Earl, *Book review* of Aspects of Neural Ontogeny, 3:275
Eldredge, Richard W. & Andrew W. Breidenbach, Research and Development for Better Solid Waste Management, 11:984
Elemental and Hydrologic Budgets of the Panamanian Tropical Moist Forest, J. T. McGinnis, F. B. Golley, R. G. Clements, G. I. Child, & M. J. Duever, 8:697
Elements of Zoology, P. B. Weisz, *Book brief* by Benedict J. Jaskoski, 10:946
El-Sayed, Sayed Z., Antarctic Ecology (Meeting Report), 11:1031
Emerson, F. H. et al., Regulation of Fruit Growth with 2-Chloroethanephosphonic Acid (Research Report), 10:903
Entomology of Antarctica, J. L. Gressitt, *Book review* by Gregory B. Mulkern, 2:177
Environmental Influences, D. C. Glass, *Book review* by Mark Abrahamson, 12:1123
Environmental Stimuli and the Responses of Parasitic Helminths, Ralph E. Thorson, 2:126
Eshbaugh, W. Hardy & Thomas K. Wilson, Departments of Botany, Passé?, 12:1072
Essays on Form in Plants, C. W. Wardlaw, *Book review* by Albert S. Rouffa, 12:1126
Essentials of Modern Biology, A. Nason, *Book review* by W. M. Laetsch, 3:271
Essentials of Toxicology, Ted A. Loomis, *Book review* by Clinton H. Thienes, 1:86
Etges, Frank J., *Book review* of The Rays Are Not Coloured, 3:284
Evans, A. Murray, Problems of Apomixis and the Treatment of Agamic Complexes, 8:708
Evolution and Classification of Flowering Plants, The, A. Cronquist, *Book review* by Earl L. Core, 3:278
Evolution and the Genetics of Populations, Vol. I, Genetic and Biometric Foundations, S. Wright, *Book review* by Theodosius Dobzhansky, 8:752
Evolution in Changing Environments, Some Theoretical Explorations, R. Levins, *Book review* by David L. Jameson, 7:659

Evolutionary Biology, TH. DOBZHANSKY, *Book review* by Francisco J. Ayala, 11:1040
Evolutionary Processes in the Ecosystem, Harlan Lewis, 3:223
Ewan, Joseph, *Book review* of The Komarov Botanical Institute: 250 Years of Russian Research, 3:280
Excursion Flora of the British Isles, A. R. CLAPHAM, T. G. TUTIN & E. F. WARBURG, *Book review* by Richard S. Cowan, 3:274
Expected Biological Responses to Weightlessness, Frank B. Salisbury, 5:407
Experimental Physiology, A. DUNN & J. ARDITTI, *Book review* by Graham J. Davis, 4:380
Experiments in Animal Behavior, D. HAINSWORTH, *Book review* by E. G. Franz Sauer, 6:567
Extracellular and Supporting Structures, Vol. 26A, Comprehensive Biochemistry, M. FLORKIN & E. H. STOTZ, *Book review* by Robert K. Jennings, 7:658

F

Fattig, W. Donald (*See* Letters), 1:9
Federal Funds for Research and Development (Feature), Jo Ann V. Fowler, 5:460
Ferber, Gilbert J. & Robert J. List, Prediction of External Gamma Dose from Nuclear Excavation of a Sea-Level Canal, 3:234
Fernelius, Albert L., *Book review* of The Biology of Animal Viruses, Vol. II, The Pathogenesis and Ecology of Viral Infections, 6:571
Ferrell, William J. & James F. Radloff, Biosynthesis of Free Fatty Aldehydes by Yeast Particles (Research Report), 3:243
Fiskell, J. G. S. et al., Soils and Agriculture of Eastern Panama and Northwestern Colombia, 6:529
Flaumenhaft, Eugene, *Book review* of An Introduction to the Structure of Biological Molecules, 12:1125
Flora of Alaska and Neighboring Territories, ERIC HULTEN, *Book review* by Lyman Benson, 3:274
Flora of New England, The, F. C. SEYMOUR, *Book review* by Elwood B. Ehrle, 7:660
Flora of the Queen Charlotte Islands, A. Part I. Systematics of the Vascular Plants, J. A. CALDER & R. L. TAYLOR, Part II. Cytological Aspects of the Vascular Plants, R. L. TAYLOR & G. A. MULLIGAN, *Book review* by Earl L. Core, 10:941
Focus
  Gaylord Nelson, Ann C. Barker, 7:649
  Joseph D. Tydings, Ann C. Barker, 9:831
  Philip A. Hart, Ann C. Barker, 10:925
  Richard L. Ottinger, Ann C. Barker, 6:553
  William D. McElroy, Ann C. Barker, 8:737
Foley, R. F. (*See* Letters), 12:1056
Foster, John M., Use of the Oxygen Electrode in Lecture or Student Laboratory to Demonstrate Properties of Mitochondria (Education), 6:541
Fowler, Jo Ann V. & Ann C. Barker, Technology Assessment, 10:923
Fowler, Jo Ann V., Federal Funds for Research and Development (Feature), 5:460; Recent Developments in Everglades Controversy (Special Feature), 10:926; (*See* Capital Comment), 7:648
Fox, Sidney W., *Book review* of Macromolecules of Living Systems, 5:480
Freshwater Ecological Studies in Panama and Colombia, W. L. Templeton, J. M. Dean, D. G. Watson, & L. A. Rancitelli, 9:804
Friedman, Sharon, Thermal Addition: One Step from Thermal Pollution (IBP), 1:60; Realignment of IBP Programs (IBP), 2:153; IBP Upwelling Research Begins (IBP), 3:252; Some Hope for IBP Funding (IBP), 4:359; IBP and the Legislature (IBP), 5:459; Basic Research in the Soviet Union (Feature), 6:549; IBP Eastern Deciduous Forest Biome Underway (IBP), 9:829; Grasslands Biome Research of IBP (IBP), 12:1109
Frost Entomological Museum, The, Ke Chung Kim, 7:612
Functional Dynamics of the Cell, E. BRESNICK & A. SCHWARTZ, *Book review* by Lloyd Barr, 6:568
Fundamentals of Mycology, J. H. BURNETT, *Book review* by L. Calpouzos, 10:942

G

Gailey, Franklin B. et al., Sol-Gel Differences in Plasmodia of the Acellular Slime Mold, *Physarum polycephalum* (Research Report), 11:1003
Galston, Arthur W. (*See* Letters), 1:9
Gamble, J. F. et al., Soils and Agriculture of Eastern Panama and Northwestern Colombia, 6:529; Uptake and Translocation of $^{134}Cs$, $^{59}Fe$, $^{85}Sr$ and $^{185}W$ by Banana Plants and a Coconut Plant Following Foliar Application, 7:613; Compositional Analyses of Soils, Forages, and Cattle Tissues from Beef-Producing Areas of Eastern Panama, 7:616; The Retention of Selected Radionuclides from Dilute Solutions by Panamanian Clays; 7:623
Gamble, John F. & Samuel C. Snedaker, Compositional Analysis of Selected Second-Growth Species from Lowland Guatemala and Panama, 6:536
Gamma Globulins, J. KILLANDER, *Book review* by Emanuel M - goliash, 7:657
Gans, Carl, Modification of an Inexpensive Closed Circuit Televis n Unit as Adjuncts to Biomechanical Studies (Research Repo ), 7:631
Genetic Mosaics and Other Essays, C. STERN, *Book review* by Al n Corcos, 10:939
Genetic Mosaics and Other Essays, C. STERN, *Book review* by Pe r J. Bryant, 12:1130
Genetics in Medical Practice, M. BARTALOS, *Book review* by How rd J. Teas, 12:1125
Genetics, R. P. LEVINE, *Book review* by William M. Hexter, 4:376
Georgopoulos, S. G., The Problem of Fungicide Resistance, 11:971
Gergely, J., *Book review* of The Primary Structure of Proteins, 5:481
Goldman, Morris (*See* Letters), 4:299
Goldsby, Alice I., *Book review* of Viruses of Vertebrates, 2:188
Goldsmith, William A. et al., The Retention of Selected Radionuclides from Dilute Solutions by Panamanian Clays, 7:623
Goldstein, Lester (*See* Letters), 1:11; Birth Control Assistance Should Be a Right, not a Handout (Editorial), 6:501; Thoughts on Tax Exemption (Editorial), 10:871
Golley, F. B. et al., The Structure of Tropical Forests in Panama and Colombia, 8:693; Elemental and Hydrologic Budgets of the Panamanian Tropical Moist Forest, 8:697
Gorbman, Aubrey, Lumper or Splitter? Administrative Organization of Biology at Larger Universities, 1:35; (*See* Letters), 6:497
Gordon, Robert E., Toward an Information System for Biology-Community Activity, 7:628
Gorham, Eville (*See* Letters), 4:299
Gray, Jane, *Book review* of Growth of a Prehistoric Time Scale, 5:482
Green, David E. & David H. MacLennan, Structure and Function of the Mitochondrial Cristael Membrane, 3:213
Greene, George L. (*See* Letters), 6:497
Growth of a Prehistoric Time Scale, W. B. N. BERRY, *Book review* by Jane Gray, 5:482

H

Hafley, W. L., Calculation and Miscalculation of the Allometric Equation Reconsidered, 11:974
Hailman, Jack P. (*See* Bibliography), 10:949
Halikas, George C. (*See* BIAC), 9:826
Hammond, Datus M., *Book review* of Invertebrate Zoology, 5:482
Handbook of Living Primates, A, J. R. NAPIER & P. H. NAPIER, *Book review* by John Buettner-Janusch, 1:86
Handbook of the Crayfishes of Ontario, DENTON W. CROCKER & DAVID W. BARR, *Book review* by Gerald D. Schmidt, 1:80
Harmon, Lindsey R. & Joan G. Creager, Careers of Ph.D.'s in the Biosciences (Education), 10:910
Harper, F. R., A Profession to Deal with the Diagnosis and Treatment of Disease in Plants, 8:690
Hasler, Arthur D., Cultural Eutrophication Is Reversible, 5:425
Hauke, Richard L., Problematic Groups in the Fern Allies and the Treatment of Subspecific Categories, 8:705
Hebert, T. T., *Book review* of Advances in Virus Research, Vol. 13, 3:283
Heinrich, Bernd (*See* Letters), 10:867
Heintz, Roger L., *Book review* of Bioelectronics, A Study in Cellular Regulations, Defense, and Cancer, 11:1038
Heiser, Charles B., Jr., Some Considerations of Early Plant Domestication, 3:228
Hennigan, Robert D., Water Pollution, 11:976
Henrich, Thorston W. (*See* Letters), 11:964
Herman, Carlton M., The Impact of Disease on Wildlife Populations, 4:321
Hervey, Ralph J. (*See* Letters), 7:584
Hexter, William M., *Book review* of Genetics, 4:376; *Book review* of The Science of Genetics, 11:1041
High School Biology, BSCS Green Version, 2nd ed., H. KOLB et al., *Book review* by Ted F. Andrews, 5:475
Holdren, John P. & Paul R. Ehrlich, Population and Panaceas, A Technological Perspective, 12:1065
Hollis, John P. (*See* letters), 2:106
Holly, D. E. et al., Hydrologic Redistribution of Radionuclides Around a Nuclear-Excavated Sea-Level Canal, 9:799
Holmes, W. Neil & Howard A. Bern, U.S.-Japan Seminar on Endocrine Glands and Osmoregulation in Fishes (Meeting Report), 8:746
Holt, C. E. et al., Investigative Laboratory Programs in Biology, A position paper of the commission on undergraduate education in the biological sciences, 12:1004
Holway, J. Gary & John G. New, Pollution—Is There a Solution?, 10:888
Hood, Donald W., Symposium on Organic Matter in Natural Waters (Meeting Report), 6:562
Howard, Walter E., The Population Crisis Is Here Now, 9:779

How to Know the Grasses, R. W. POHL, *Book review* by Brij M. Kapoor, 9:843
Human Color Perception/A Critical Study of the Experimental Foundation, J. J. SHEPPARD, JR., *Book review* by Oscar W. Richards, 2:182
Human Ecology of Northwestern Colombia (The Chocó), F. Webster McBryde & Alfredo S. Costales, 5:432
Humm, Harold J., *Book review* of Revision of the Classification of the Oscillatoriaeceae, 5:477
Hutchison, D. J. et al., Promotion of Abscission of Orange Fruits by Cycloheximide as Related to Site of Treatment (Research Report), 5:443
Hydrologic Redistribution of Radionuclides Around a Nuclear-Excavated Sea-Level Canal, R. L. Charnell, T. M. Zorich, & D. E. Holly, 9:799

I

IBP
Grasslands Biome Research of IBP, Sharon Friedman, 12:1109
IBP and the Legislature, Sharon Friedman, 5:459
IBP Eastern Deciduous Forest Biome Underway, Sharon Friedman, 9:829
IBP Upwelling Research Begins, Sharon Friedman, 3:252
Realignment of IBP Programs, Sharon Friedman, 2:153
Some Hope for IBP Funding, Sharon Friedman, 4:359
Thermal Addition: One Step from Thermal Pollution, Sharon Friedman, 1:60
Impact of Disease on Wildlife Populations, The, Carlton M. Herman, 4:321
Improving the Communication of Scientific Information, F. Peter Woodford, 7:625
In Brief—In Biology, 1:64; 2:158; 3:256; 4:362; 5:464; 8:740; 9:835; 10:928; 11:1024; 12:1115
Informationenters (Feature), 12:1111
Information Retrieval for the Working Scientist: A Simple Algorithm, David L. Jameson, 3:232
Inger, Robert F. (*See* Letters), 1:9
Ingersoll, Bruce, DDT on Trial in Wisconsin, Part I (Feature), 4:357; Part II, 8:735
Interactions, Mitchell R. Zavon, 10:892
Introduction to Animal Virology, A. P. WATERSON, *Book review* by Daniel O. Trainer, 4:373
Introduction to Biological Chemistry, J. AWAPARA, *Book review* by Oliver Carrier, Jr., 1:78
Introduction to Chromatography, J. M. BOBBITT, A. SCHWARTING & R. J. GRITTER, *Book review* by Russel J. Barrnett, 5:478
Introduction to the South African Orchids, An, E. A. C. L. E. SCHELPE, *Book review* by Joseph Arditti, 1:85
Introduction to the Structure of Biological Molecules, An, J. M. BARRY & E. M. BARRY, *Book review* by Eugene Flaumenhaft, 12:1125
Introduction to the Symposium and the Flora North America Project, John T. Mickel, 8:702
Introduction to Zoology, T. H. SAVORY, *Book review* by Robert Leo Smith, 9:849
Invertebrate Zoology, R. W. HEGNER & J. G. ENGEMANN, *Book review* by Datus M. Hammond, 5:483
Istock, Conrad, A Corollary to the Dismal Theorem, 12:1079
Iwahori, Shuichi et al., Effect of 2-Chloroethanephosphonic Acid on Tomato Fruit Development and Maturation (Research Report), 1:49

J

Jameson, David L., Information Retrieval for the Working Scientist: A Simple Algorithm, 3:232; *Book review* of Poisonous Snakes of the World, 5:481; *Book review* of Evolution in Changing Environments, Some Theoretical Explorations, 7:659
Jaskoski, Benedict J., *Book brief* of Elements of Zoology, 10:946
Jenkins, W. R. (*See* Letters), 6:4973Jenkins, W. R. (*See* Letters), 6:497
Jennings, Robert K., *Book review* of Extracellular and Supporting Structures, Vol. 26A, Comprehensive Biochemistry, 7:658
Johnson, T. W., Jr., *Book review* of Biology of the Myxomycetes, 7:660
Jukes, Thomas H., DDT: Affluent Enemy or Beneficial Friend? (Feature), 7:640; (*See* Letters), 11:964

K

Kapoor, Brij M., *Book review* of How to Know the Grasses, 9:843
Kaye, S. V. et al., Predicting Radiation Dose Equivalents for Populations. I. Dose Models and Methods of Application, 3:238
Kaye, Stephen V. & Paul S. Rohwer, Predicting Radiation Dose Equivalents for Populations. II. Results Obtained with the Dose Models, 4:326
Kelly, Mahlon G. & Alfred Conrod (*See* BIAC), 4:352
Kemmerer, W. W., Jr. et al., Physical, Chemical, and Biological Activities at the Lunar Receiving Laboratory, 8:712
Khudairi, A. K., Mycorrhiza in Desert Soils, 7:598
Kim, Ke Chung, The Frost Entomological Museum, 7:612
King, Lawrence J., Biocrystallography—An Interdisciplinary Challenge, 6:505
King, Willis, *Book review* of The Atlantic Salmon, 6:567
Kit, Saul, *Book review* of The Molecular Biology of Viruses, 1:84; *Book review* of Molecular Basis of Virology, 9:849
Kline, Jerry R. & Robert P. McIntosh (*See* Letters), 8:673
Komarov Botanical Institute, The: 250 Years of Russian Research, S. G. SHETLER, *Book review* by Joseph Ewan, 3:280
Kormondy, Edward J., Some Notes from AAAS Meeting (Meeting Report), 5:471; New Faces at CUEBS and OBE (Education), 9:836; The Consultants Bureau (Education), 11:1007
Krusberg, L. R., First International Congress of Plant Pathology, Part II. Nematodes (Meeting Report), 3:261

L

Laetsch, W. M., *Book review* of Essentials of Modern Biology, 3:271; *Book review* of Photosynthesis, 11:1037
Lands Beyond the Forest, P. B. SEARS, *Book review* by C. John Burk, 10:939
Larson, Joseph S., *Book review* of The American Environment, 4:374
Lasiewski, Robert C. (*See* Letters), 8:673
Leisner, Robert S., *Book review* of B-P-H, 2:184; 1969—In Retrospect (Editorial), 12:1059
Leopold, A. C. (*See* Letters), 1:9
Letham, David S., Cytokinins and Their Relation to Other Phytohormones, 4:309
Letters
Attitude Is Important, F. J. Baron, 9:771
Bear Facts (7 letters), Thomas D. Brock, Richard L. Bailey, A. H. MacPherson, Jan O. Murie, Wade H. Marshall, James L. Magowan, Gairdner B. Moment, 3:201
Biological Problem, A, W. R. Jenkins, 6:497
Biology and Public Responsibility, Philip Siekevitz, 2:108
Biology for the Citizen, Elizabeth Wagner Reed, 1:10
Briggs' Reply, John C. Briggs, 4:301
Commitments of Speakers, Douglass H. Morse, 11:964
Critic's View, A, E. G. F. Sauer, 1:10
Defoliation Controversy Continues (7 letters) Judith Sugar, Robert F. Inger, Paul L. Redfearn, Jr., Arthur W. Galston, W. Donald Fattig, Olli Vaartaja, A. C. Leopold, 1:9
Details Needed, John C. DeFries, 4:300
Disaster?, A, Gairdner B. Moment, 6:497
Disclaimer, Richard R. Dedolph, 9:772
Distorted Logic, Bernd Heinrich, 10:867
Disturbing Idea, Jerry R. Kline & Robert P. McIntosh, 8:673
Educate the Layman (2 letters) M. Pitman & M. A. Mares, 12:1056
Encyclical Protest, Jeffrey J. W. Baker, Ernst Mayr & Paul Ehrlich, 5:400
Endorses Editorial Policy (2 letters), Richard B. Spurrier, 7:584 & Leslie H. Squier, 7:586
Gray Squirrels, John J. Christian, 2:106
Help Needed for EDF, John R. Meyering, 8:675
Humus-Inhabiting Organisms, John P. Hollis, 2:106
Lawyer Writes, A, Richard M. Bowers, 4:301
Miscalculation?, J. R. Bainbridge, 9:770
Motives Confused?, Lester Goldstein, 1:11
Nonmajor Elective Courses, Jack A. Ward, Robert Weigel, & Dale Birkenholz, 9:773
Not Dead Yet, Eville Gorham, 4:299
Oxygen Cycle, The, LaMont C. Cole, 2:108
Pertinent Points Omitted, George Linden Greene, 6:497
Praise for Editorial (3 letters), Hobart Smith, D. O. Wolfenbarger & Bruce Oakley, 5:399
Prefers Logarithmic Plotting, Robert C. Lasiewski, 8:673
Pro and Con (3 letters), R. F. Foley, K. C. Sink & J. Carew, 12:1056
Promise, A, J. D. Tydings, 12:1056
Propaganda Buildup?, D. O. Wolfenbarger, 11:964
Proper Perspective, H. Edward Stone, Jr., 10:866
Question of Definition, A, Thorston W. Henrich, 11:964
Regrouping Biologists, Aubrey Gorbman, 6:497
Reply to Jordan, A, L. B. Slobodkin, 5:397
Responsibility Gap, The, E. Staten Wynne, 11:965
Successful Course, L. C. Eddington, 10:866
Such Is Life!, Ralph A. Lewin, 7:584
Take Issue with Facts, Morris Goldman, 4:299
Takes Issue with Jukes, Karl Schurr, 10:866
Timely Feature, Joe A. Edmisten, 9:770
Tolerance/Tranquilizers, George L. McNew, 9:770
Trial and Error in Madison, Thomas H. Jukes, 11:964
Unclear Data, August P. Mueller, 7:586
Unnecessary Alarm, John P. Sheffey, 4:300

Urgently Needed: Broad, Concerted Action, Ralph J. Hervey, 7:584
Useless Information, Elwood B. Ehrle, 7:584
Zar's Rebuttal, Jerrold H. Zar, 8:673
Levin, A. A. et al., Ecological Models Applied to Radionuclide Transfer in Tropical Ecosystems, 12:1086
Lewin, Ralph A. (*See* Letters), 7:584
Lewis, Harlan, Evolutionary Processes in the Ecosystems, 3:223
Li, H. L., Urban Botany: Need for a New Science, 10:882
Life Sciences Research and Lunar Medicine, F. J. MALINA, *Book review* by R. G. Lindberg, 2:182
Likens, G. E. et al., Biotic Regulation of Particulate and Solution Losses from a Forest Ecosystem, 7:600
Lindberg, R. G., *Book review* of Life Sciences Research and Lunar Medicine, 2:182
List, Robert J. & Gilbert J. Ferber, Prediction of External Gamma Dose from Nuclear Excavation of a Sea-Level Canal, 3:234
Lloyd, Barr, *Book review* of Functional Dynamics of the Cell, 6:568
Loaiza, J. M. et al., Compositional Analyses of Soils, Forages, and Cattle Tissues from Beef-Producing Areas of Eastern Panama, 7:616
Long, Charles A., The Origin and Evolution of Mammary Glands, 6:519; *Book review* of Marine Mammals, 9:843
Lowman, Frank G., Radionuclides of Interest in the Specific Activity Approach, 11:993
Lukens, R. J., First International Congress of Plant Pathology, Part I. Fungicides: Their Discovery, Use, and Mode of Action (Meeting Report), 2:164
Lumper or Splitter? Administrative Organization of Biology at Larger Universities, Aubrey Gorbman, 1:35
Lymphocyte Stimulation, N. R. LING, *Book review* by James D. Ebert, 4:376
Lyons, James M. et al., Effect of 2-Chloroethanephosphonic Acid on Tomato Fruit Development and Maturation (Research Report), 1:49

Mc

McBryde, F. Webster & Alfredo S. Costales, Human Ecology of Northwestern Colombia (The Chocó), 5:432
McClendon, John H., *Book review* of Comparative Biochemistry of the Flavonoids, 2:181
McDonald, James C., *Book brief* of Acetic Acid Bacteria, 6:571
McElroy, William D., Biomedical Aspects of Population Control, 1:19
McGinnis, J. T. et al., The Structure of Tropical Forests in Panama and Colombia, 8:693; Elemental and Hydrologic Budgets of the Panamanian Tropical Moist Forest, 8:697
McHugh, J. L., The United States and World Whale Resources, 12:1075
McIntosh, Robert P. & Jerry R. Kline (*See* Letters), 8:673
McMillan, Calvin, Ecotypes and Ecosystem Function, 2:131
McNew, George L. (*See* Letters), 9:770; Tax Reform May Hit Support for Science and Education (Special Feature), 9:832

M

MacLennan, David H. & David E. Green, Structure and Function of the Mitochondrial Cristael Membrane, 3:213
MacPherson, A. H. (*See* Letters), 3:201
Macromolecules of Living Systems, H. S. RHINESMITH & L. A. CIOFFI, *Book review* by Sidney W. Fox, 5:480
Madison, J. T., *Book brief* of Advances in Enzymology, 11:1043
Magowan, James L. (*See* Letters), 3:202
Manville, Richard H., *Book review* of Echidnas, 8:754
Manzer, F. E., First International Congress of Plant Pathology, Part II. Disease Assessment (Meeting Report), 3:261
Mares, M. A. (*See* Letters), 12:1056
Margoliash, Emanuel, *Book review* of Gamma Globulins, 7:657
Marshall, Wade H. (*See* Letters), 3:201
Marion, G. B., *Book review* of Reproduction in the Female Mammal, 2:180; *Book review* of Ultrastructure of Fertilization, 10:941
Martin, John H., Distribution of C, H, N, P, Fe, Mn, Zn, Ca, Sr, and Sc in Plankton Samples Collected off Panama and Colombia, 10:898
Martin, William E., Bioenvironmental Studies of the Radiological-Safety Feasibility of Nuclear Excavation, 2:135
Martof, Bernard S., *Book review* of Animal Locomotion, 8:751
Mason, J. A. et al., Physical, Chemical, and Biological Activities at the Lunar Receiving Laboratory, 8:712
Mayr, Ernst et al. (*See* Letters), 5:400
Meeting Reports
AAAS Meeting, Some Notes from, Edward J. Kormondy, 5:471
Antarctic Ecology, Sayed Z. El-Sayed, 11:1031
Biology of Amphibian Tumors, International Symposium, Merle Mizell, 10:932
Cold Adaptation, Membranes, and Lipid Metabolism, J. H. Quastel, 7:654
Evolution of the Higher Basidiomycetes (Fungi), International Symposium on, Ronald H. Petersen, 1:73
Health Aspects of the International Movement of Animals, Jackee Cox, 4:370
Miles Symposium on Molecular Biology, Roland F. Beers, Jr., 9:840
Missouri Botanical Garden's 15th Systematics Symposium, Hugh C. Cutler, 5:471
Organic Matter in Natural Waters, Symposium on, Donald W. Hood, 6:562
Plant Pathology, First International Cong. of, Part I. Physiology and Biochemistry of Parasitism, J. M. Daly; Fungicides: Their Discovery, Use, and Mode of Action, R. J. Lukens; Plant Viruses and Virus Diseases, A. F. Ross; Bacterial Diseases of Plants, Milton N. Schroth; 2:164
Plant Pathology, First International Cong. of, Part II. Root Diseases, Kenneth F. Baker; Epidemiology of Fungal Diseases, Richard D. Schein; Nematodes, L. R. Krusberg; Genetics of Pathogenicity and Resistance, P. R. Day; Disease Assessment, F. E. Manzer; 3:261
Regulation of Enzyme Activity and Synthesis in Mammalian Tissues, George Weber, 5:472
Relationship of AIBS to Biology in the Two-Year Colleges, Elwood B. Ehrle, 4:371
U.S.-Japan Seminar on Endocrine Glands and Osmoregulation in Fishes, W. Neil Holmes & Howard A. Bern, 8:746
Meltzer, Alan S., A New Approach to Natural Science, Part I. The Physical Science Base (Education), 7:633
Membranes, Ions & Impulses, K. S. COLE, *Book review* by Milton R. J. Salton, 9:844
Membranes, Ultrastructure in Biological Systems, The, A. J. DALTON & F. HAGUENAU, *Book review* by G. Benjamin Bouck, 9:844
Menaker, Michael, Biological Clocks, 8:681
Merrill, William, *Book review* of Biodeterioration of Materials: Microbiological and Allied Aspects, 11:1038
Methods for Assessment of Fish Production in Fresh Waters, W. E. RICKER, *Book review* by John D. Davis, 3:278
Methods in Cell Physiology, D. M. PRESCOTT, *Book review* by Richard D. Campbell, 11:1040
Metress, J. (*See* Bibliography), 1:90
Mexican Axolotl: Some Misconceptions and Problems, The, Hobart M. Smith, 7:593
Meyering, John R. (*See* Letters), 8:675
Miller, Donald M. et al., Sol-Gel Differences in Plasmodia of the Acellular Slime Mold, *Physarum polycephalum* (Research Report), 11:1003
Misch, Donald W., *Book review* of Cell and Molecular Biology, 6:569
Mickel, John T., Introduction to the Symposium and the Flora North America Project, 8:702
Mizell, Merle, International Symposium: Biology of Amphibian Tumors (Meeting Report), 10:932
Model for Studying the Biology of Parasitism, *Chlamydia psittaci* and Mouse Fibroblasts (L Cells), A, James W. Moulder, 10:875
Molecular Basis of Virology, H. FRAENKEL-CONRAT, *Book review* by Saul Kit, 9:849
Molecular Biology of Viruses, The, L. V. CRAWFORD & M. G. P. STOKER, *Book review* by Saul Kit, 1:84
Molecular Taxonomy and Typology, David I. Rasmussen, 5:418
Molina, Jean-Alex, *Book review* of The Ecology of Soil Bacteria, An International Symposium, 2:184
Moment, Gairdner B. (*See* Letters), 3:202; 6:497; Bears and Conservation: Realities and Recommendations (Feature), 11:1019
Monitoring Pesticide Pollution, Philip A. Butler, 10:889
Morf, William & Richard P. Pharis, Precocious Flowering of Coastal and Giant Redwood with Gibberellins, $A_3$, $A_{4/7}$, and $A_{13}$ (Research Report), 8:719
Morse, Douglass H. (*See* Letters), 11:964
Moulder, James W., A Model for Studying the Biology of Parasitism, *Chlamydia psittaci* and Mouse Fibroblasts (L Cells), 10:875
Mueller, August P. (*See* Letters), 7:586
Mulkern, Gregory B., *Book review* of Entomology of Antarctica, 2:177
Mulkern, Gregory B., *Book review* of A Spider's Web, Problems in Regulatory Biology, 9:846
Murie, Jan O. (*See* Letters), 3:201
Museums for Living Microorganisms, William A. Clark, 5:421
Mycorrhiza in Desert Soils, A. K. Khudairi, 7:598

N

NASA Budget, The, or "Darwin's Folly"—Survival of the Fittest? (Special Feature), 7:645

Natural History and Behavior of the California Sea Lion, The, R. S. PETERSON & G. A. BARTHOLOMEW, *Book review* by Victor B. Scheffer, 11:1042
New Faces at CUEBS and OBE, Edward J. Kormondy, 9:836
New, John G. & J. Gary Holway, Pollution—Is There a Solution?, 10:888
Nucleus, The, A. J. DALTON & F. HAGUENAU, *Book review* by Richard D. Campbell, 3:276

O

Oakley, Bruce (*See* Letters), 5:400
Programs of OBE, The, Elwood B. Ehrle, 9:819
Oceanographic Aides (Feature), Ann C. Barker, 1:61
Odum, Eugene P., The Attitude Lag (Editorial), 5:403
Olive, John R., *BioScience* Announcement, 5:411; Change of Command, 12:1060
Oppenheimer, Jane, *Book review* of Current Topics in Developmental Biology, 10:940
Origin and Evolution of Mammary Glands, The, Charles A. Long, 6:519
Ottinger, Richard L., The Congress and Environmental Deterioration: Immovable Object/Irresistible Force? (Feature), 6:554

P

Panorama, 1:62; 2:156; 3:254; 4:360; 5:462; 6:556; 7:646; 8:738; 9:834; 11:1022; 12:1112
Papers on Biological Membrane Structure, D. BRANTON & R. B. PARK, *Book review* by Milton R. J. Salton, 4:377
Papers on Plant Growth and Development, W. M. LAETSCH & R. E. CLELAND, *Book review* by Robert L. Burgess, 4:379
Parikh, G. C., *Book review* of The Biology of Animal Viruses, Vol. 1, Molecular and Cellular Biology, 3:273
Parsons, Thomas S. (*See* Bibliography), 9:851
Pearson, Paul G. (*See* Bibliography), 10:949
Peptides and Proteins, D. T. ELMORE, *Book review* by Oliver Carrier, Jr., 7:657
Petersen, Ronald H., International Symposium on Evolution of the Higher Basidiomycetes (Fungi) (Meeting Report), 1:73
Pharis, Richard P. & William Morf, Precocious Flowering of Coastal and Giant Redwood with Gibberellins, $A_3$, $A_{4/7}$, and $A_{13}$ (Research Report), 8:719
Photophysiology: Current Topics, Vol. 4, A. C. GIESE, *Book review* by Grace Lee Picciolo & Emmett W. Chappelle, 3:277
Photosynthesis, G. E. FOGG, *Book review* by W. M. Laetsch, 11:1037
Physical, Chemical, and Biological Activities at the Lunar Receiving Laboratory, W. W. Kemmerer, Jr., J. A. Mason, & B. C. Wooley, 8:712
Picciolo, Grace Lee & Emmett W. Chappelle, *Book review* of Photophysiology: Current Topics, Vol. 4, 3:277
Pineal, The, R. J. WURTMAN, J. AXELROD & D. E. KELLY, *Book review* by Robert H. Davis, 9:845
Pitman, M. (*See* Letters), 12:1056
Plant Science, An Introduction to World Crops, J. JANICK, R. W. SCHERY, F. W. WOODS & V. W. RUTTAN, *Book review* by Martin J. Bukovac, 12:1128
Pogonomyrmex Harvester Ants: A Study of the Genus in North America, A. C. COLE, JR., *Book brief* by David P. Wooldridge, 10:945
Poisonous Snakes of the World, G. M. MOORE et al., *Book review* by David L. Jameson, 5:481
Policies for the Environment: Too Many Cooks? (Feature), Ann C. Barker, 5:457
Pollution—Is There a Solution?, John G. New & J. Gary Holway, 10:888
Population and Panaceas, A Technological Perspective, Paul R. Ehrlich & John P. Holdren, 12:1065
Population Crisis Is Here *Now*, The, Walter E. Howard, 9:779
Population Models and Test Populations as Research Tools, Ralph P. Silliman, 6:524
Population Pollution, Francis S. L. Williamson, 11:979
Porter, J. R., *Book review* of Principles of Microbiology and Immunology, 1:81
Predicting Radiation Dose Equivalents for Populations. I. Dose Models and Methods of Application, S. V. Kaye, P. S. Rohwer, K. E. Cowser & W. S. Snyder, 3:238
Predicting Radiation Dose Equivalents for Populations. II. Results Obtained with the Dose Models, Stephen V. Kaye & Paul S. Rohwer, 4:326
Prediction of External Gamma Dose from Nuclear Excavation of a Sea-Level Canal, Gilbert J. Ferber & Robert J. List, 3:234
Prescott, David, M., The Purpose of *BioScience* (Editorial), 1:15; Control of Human Population Growth (Editorial), 3:205; Biology in the Soviet Union, (Editorial), 9:775; Food, Overpopulation, and Irresponsibility (Editorial), 2:111
Primary Structure of Proteins, The, W. A. SCHROEDER, *Book review* by J. Gergely, 5:481
Primer of Chromosome Practice, G. HASKELL & A. B. WILLS, *Book review* by Ulrich Clever, 8:752
Primitive Nervous System, T. L. LENTZ, *Book brief* by G. Westheimer, 8:754
Principles of Applied Biomedical Instrumentation, L. A. GEDDES & L. E. BAKER, *Book review* by John H. Busser, 8:752
Principles of Biometry, C. M. WOOLF, *Book review* by James H. Torrie, 6:568
Principles of Microbiology and Immunology, BERNARD D. DAVIS, RENATO DULBECCO, HERMAN N. EISEN, HAROLD S. GINSBERG & W. BARRY WOOD, JR., *Book review* by J. R. Porter, 1:82
Problem of Fungicide Resistance, The, S. G. Georgopoulos, 11:971
Problematic Groups in the Fern Allies and the Treatment of Subspecific Categories, Richard L. Hauke, 8:705
Problems of Apomixis and the Treatment of Agamic Complexes, A. Murray Evans, 8:708
Process of Ecological Change, Herbert H. Ross, 1:39
Profession to Deal with the Diagnosis and Treatment of Disease in Plants, A, F. R. Harper, 8:690
Progress in Human Behavior Genetics, Recent Reports on Genetic Syndromes, Twin Studies and Statistical Advances, S. G. VANDENBERG, *Book review* by P. B. Siegel, 8:754
Pyrrolizidine Alkaloids, L. B. BULL, C. C. J. CULVENOR & A. T. DICK, *Book brief* by C. J. Cavallito, 10:945

Q

Quastel, J. H., Cold Adaptation, Membranes, and Lipid Metabolism (Meeting Report), 7:654

R

Radioactivity and Fallout: The Model Pollution, George M. Woodwell, 10:884
Radiation Biology, ALISON P. CASARETT, *Book review* by Elwood B. Ehrle, 1:77
Radionuclide Production for the Nuclear Excavation of an Isthmian Canal, James R. Vogt, 2:138
Radionuclides of Interest in the Specific Activity Approach, Frank G. Lowman, 11:993
Radloff, James F. & William J. Ferrell, Biosynthesis of Free Fatty Aldehydes by Yeast Particles (Research Report), 3:243
Raines, G. E. et al., Ecological Models Applied to Radionuclide Transfer in Tropical Ecosystems, 12:1086
Rancitelli, L. A. et al., Freshwater Ecological Studies in Panama and Colombia, 9:804
Rasmussen, David I., Molecular Taxonomy and Typology, 5:418
Rasmussen, G. K. et al., Promotion of Abscission of Orange Fruits by Cycloheximide as Related to Site of Treatment (Research Report), 5:443
Raven, Peter H., Summary of the Symposium, 9:796
Rays Are Not Coloured, The, W. D. WRIGHT, *Book review* by Frank J. Etges, 3:284
Readings in Neurophysiology, C. D. BARNES & C. KIRCHER, *Book review* by Beverly Bishop, 4:378
Real-Time Computers, WILLIAM R. UTTAL, *Book review* by Robert A. Davidson, 1:79
Recent Developments in Everglades Controversy (Special Feature), Jo Ann V. Fowler, 10:926
Recognition of the Effect of Acidity and Alkalinity upon Microbial Heat Resistance in the 1870's, Glenn Vandervliet, 2:122
Redfearn, Paul L., Jr. (*See* Letters), 1:9
Reed, Elizabeth Wagner (*See* Letters), 1:10; Special Uses of Biology in Elementary School Curriculums (Education), 9:820
Reichle, David E. & D. A. Crossley, Jr., Analysis of Transient Behavior of Radioisotopes in Insect Food Chains (Research Report), 4:341
Reproduction in the Female Mammal, G. E. LAMMING & E. C. AMOROSO, *Book review* by G. B. Marion, 2:180
Research and Development for Better Solid Waste Management, Andrew W. Breidenbach & Richard W. Eldredge, 11:984
Research Reports
Analysis of Transient Behavior of Radioisotopes in Insect Food Chains, D. A. Crossley, Jr. & David E. Reichle, 4:341
Biosynthesis of Free Fatty Aldehydes by Yeast Particles, William J. Ferrell & James F. Radloff, 3:243
Detergent Enzymes: Biodegradation and Environmental Acceptability, R. D. Swisher, 12:1093
Effect of 2-Chloroethanephosphonic Acid on Tomato Fruit Development and Maturation, Shuichi Iwahori, Shimshon Ben-Yehoshua & James M. Lyons, 1:49
Excretion of Dissolved Organic Compounds by Aquatic Macrophytes, Robert G. Wetzel, 6:539
Modification of an Inexpensive Closed Circuit Television Unit as Adjuncts to Biomechanical Studies, Carl Gans, 7:631

Precocious Flowering of Coastal and Giant Redwood with Gibberellins, $A_3$, $A_{4/7}$, and $A_{13}$, Richard P. Pharis & William Morf, 8:719
Promotion of Abscission of Orange Fruits by Cycloheximide as Related to Site of Treatment, W. C. Cooper, G. K. Rasmussen & D. J. Hutchison, 5:443
Promotion of Fruit Abscission with Abscisic Acid, F. Zucconi, R. Stösser & M. J. Bukovac, 9:815
Regulation of Fruit Growth with 2-Chloroethanephosphonic Acid, Ross E. Byers, H. C. Dostal & F. H. Emerson, 10:903
Regulation of Sex Expression in the Cucumber, Richard W. Robinson, Stanton Shannon & Manuel D. de la Guardia, 2:141
Sol-Gel Differences in Plasmodia of the Acellular Slime Mold, *Physarum polycephalum*, Shuh J. Sheen, Franklin B. Gailey, Donald M. Miller, John D. Anderson, Theodore J. Bargmann & Dee A. Carter, 11:1003
Retention of Selected Radionuclides from Dilute Solutions by Panamanian Clays, The, William A. Goldsmith, W. Emmett Bolch & J. F. Gamble, 7:623
Revision of the Classification of the Oscillatoriaceae, F. DROUET, *Book review* of Harold J. Humm, 5:477
Richards, Oscar W., *Book review* of Human Color Perception/A Critical Study of the Experimental Foundation, 2:182
Robinson, H. F., Dimensions of the World Food Crisis, 1:24
Robinson, Richard W. et al., Regulation of Sex Expression in the Cucumber (Research Report), 2:141
Rohwer, Paul S. et al., Predicting Radiation Dose Equivalents for Populations, I. Dose Models and Methods of Application, 3:238
Rohwer, Paul S. & Stephen V. Kaye, Predicting Radiation Dose Equivalents for Populations, II. Results Obtained with the Dose Models, 4:326
Role and Taxonomic Treatment of Hybrids, The, W. H. Wagner, Jr., 9:775
Ross, A. F., First International Congress of Plant Pathology, Part I. Plant Viruses and Virus Diseases (Meeting Report), 2:164
Ross, Herbert H., Process of Ecological Change, 1:39
Rouffa, Albert S., *Book review* of Essays on Form in Plants, 12:1126

S

Salisbury, Frank B., Expected Biological Responses to Weightlessness, 5:407
Salton, Milton R. J., *Book review* of Papers on Biological Membrane Structure, 4:377; *Book review* of Membranes, Ions & Impulses, 9:844
Sauer, E. G. F. (*See* Letters), 1:10; *Book review* of Experiments in Animal Behavior, 6:567
Sax, Karl, Ethical Aspects of the Population Crisis (Editorial), 4:303
Scheffer, Victor B., *Book review* of The Behavior and Physiology of Pinnipeds, 11:1042; *Book review* of The Natural History and Behavior of the California Sea Lion, 11:1042
Schein, Richard D., First International Congress of Plant Pathology, Part II. Epidemiology of Fungal Diseases (Meeting Report), 3:261
Schmidt, Gerald D., *Book review* of Handbook of the Crayfishes of Ontario, 1:80
Schmidt-Nielsen, Knut, The Alpha Helix: A Research Opportunity (Feature), 1:59
Scholes, Vernon E., *Book review* of Delayed Hypersensitivity, 1:81
Schroth, Milton N., First International Congress of Plant Pathology, Part I. Bacterial Diseases of Plants (Meeting Report), 2:164
Schull, W. J., *Book review* of Towards a Theoretical Biology, 9:848
Schurr, Karl (*See* Letters), 10:866
Science: Another Bothering Year (Feature), 2:155
Science of Genetics, The, G. W. BURNS, *Book review* by William M. Hexter, 11:1041
Scientists and Legislators, Emilio Q. Daddario (Feature), 2:149
Sea-Level Panama Canal, The: Potential Biological Catastrophe, John C. Briggs, 1:44
Search for Extraterrestrial Life, The, J. S. HANRAHAN, *Book review* by Elie Shneour, 5:478
Serotonin, I. H. PAGE, *Book review* by Beverly Bishop, 9:845
Shaefer, Vincent J., Some Effects of Air Pollution on Our Environment, 10:896
Shannon, Stanton et al., Regulation of Sex Expression in the Cucumber (Research Report), 2:141
Sheen, Shuh J. et al., Sol-Gel Differences in Plasmodia of the Acellular Slime Mold, *Physarum polycephalum*, (Research Report), 11:1003
Sheffey, John P. (*See* Letters), 4:300
Shilling, Paul R., A New Approach to Natural Science, Part II. The Life Sciences (Education), 7:634
Shneour, Elie, *Book review* of The Search for Extraterrestrial Life, 5:478
Siegel, P. B., *Book review* of Behavior, 2:179; *Book review* of Progress in Human Behavior Genetics, Recent Reports on Genetic Syndromes, Twin Studies, and Statistical Advances, 8:754
Siekevitz, Philip (*See* Letters), 2:108
Siekevitz, Philip & Alfred Sussman, Oceanography Prostituted by the Military (Editorial), 7:589
Silliman, Ralph P., Population Models and Test Populations as Research Tools, 6:524
Simons, Daniel, *Book review* of Advances in Applied Microbiology, 2:179
Sink, K. C. (*See* Letters), 12:1056
Six-Legged Science, B. HOCKING, *Book review* by James H. Wilmeth, 3:283
Slinkard, Al, *Book review* of Basic Principles of Molecular Genetics, 4:378
Slobodkin, L. B. (*See* Letters), 5:397
Smith, Frederick E., Today the Environment, Tomorrow the World, 4:317
Smith, Hobart (*See* Letters), 5:399; The Mexican Axolotl: Some Misconceptions and Problems, 7:593
Smith, Robert Leo, *Book review* of Introduction to Zoology, 9:849
Snedaker, Samuel C. & John F. Gamble, Compositional Analysis of Selected Second-Growth Species from Lowland Guatemala and Panama, 6:536
Snyder, W. S. et al., Predicting Radiation Dose Equivalents for Populations, I. Dose Models and Methods of Application, 3:238
Social Organization of Hamadryas Baboons, H. KUMMER, *Book review* by Bruce K. Alexander, 4:373
Soils and Agriculture of Eastern Panama and Northwestern Colombia, J. T. Gamble, R. Ah Chu & J. G. S. Fiskell, 6:529
Some Considerations of Early Plant Domestication, Charles B. Heiser, Jr., 3:228
Some Effects of Air Pollution on Our Environment, Vincent J. Schaefer, 10:896
Speirs, Robert S., Cellular Aspects of Immune Reactions, 5:411
Spider's Web, Problems in Regulatory Biology, A, P. N. WITT, C. F. REED & D. B. PEAKALL, *Book review* by Gregory B. Mulkern, 9:846
Sprague, Victor, *Book review* of Animal Agents and Vectors of Human Disease, 1:85
Sprenger, Wolfgang W. & Edward J. Breyere, A Teaching Aid for Estimating Host Response to Allografts (Education), 8:723
Spurrier, Richard B. (*See* Letters), 7:584
Squier, Leslie H. (*See* Letters), 7:586
Stern, William L., *Book review* of Arboles Communes de Puerto Rico y las Islas Virgenes, 2:186
Statement of U.S. Senator Joseph D. Tydings on the Report by the Presidential Committee on Population and Family Planning, 3:206
Stein, Howard J., Career Guidance Activities of OBE (Education), 12:1103
Stone, H. Edward, Jr. (*See* Letters), 10:866
Stösser, R. et al., Promotion of Fruit Abscission with Abscisic Acid (Research Report), 9:815
Strahlenbiologie (Radiation Biology), Vol. 95 of Verstandliche Wissenschaft, A. KREBS, *Book review* by Francis Joseph Weiss, 6:570
Stratton Report: The, Blueprint for Oceanography (Feature), Ann C. Barker, 3:251
Structural Concepts in Immunology and Immunochemistry (Molecular and Cellular Biology Series), E. A. KABAT, *Book review* by Linda D. Caren, 5:479
Structure and Function of the Mitochondrial Cristael Membrane, David E. Green & David H. MacLennan, 3:213
Structure of Tropical Forests in Panama and Colombia, The, F. B. Golley, J. T. McGinnis, R. G. Clements, G. I. Child & M. J. Duever, 8:693
Studies in the Structure, Physiology, and Ecology of Molluscs, V. FRETTER, *Book review* by John D. Davis, 10:944
Study of Life: The, An Introduction to Biology, G. H. ORIANS, *Book review* by Graham J. Davis, 11:1039
Subarsky, Zachariah, A Wetness Gradient and the Germination of Seeds (Education), 11:1008
Sugar, Judith (*See* Letters), 1:9
Summary of the Symposium, Peter H. Raven, 9:796
Survey of Embryology, A. F. G. GILCHRIST, *Book review* by Bent G. Böing, 7:658
Sussman, Alfred & Philip Siekevitz, Oceanography Prostituted by the Military (Editorial), 7:589
Swan, Frederick R., Jr., *Book review* of Ecology and Resource Management, 1:78
Swisher, R. D., Detergent Enzymes: Biodegradation and Environmental Acceptability (Research Report), 12:1093

T

Tamir, Pinchas, High School Preparation and College Biology (Education), 5:447
Tax Reform May Hit Support for Science and Education, George L. McNew (Special Feature), 9:832
Taxonomic Problems in the Geography of North American Ferns, Rolla Tryon, 9:790

Teaching Children Science: An Inquiry Approach, L. I. KUSLAN & A. H. STONE, *Book review* by Melvin L. Alexenberg, 7:661
Teas, Howard J., *Book review* of Genetics in Medical Practice, 12:1125
Technology Assessment, Ann C. Barker & Jo Ann V. Fowler, 10:923
Templeton, W. L. et al., Freshwater Ecological Studies in Panama and Colombia, 9:804
Tester, John R., *Book review* of Ecology of Populations, 5:480
Thermal Pollution, LaMont C. Cole, 11:989
Thienes, Clinton H., *Book review* of Essentials of Toxicology, 1:86
Thomasson, W. Neil et al., Uptake and Translocation of $^{134}Cs$, $^{59}Fe$, $^{85}Sr$ and $^{185}W$ by Banana Plants and a Coconut Plant Following Foliar Application, 7:613
Thorson, Ralph E., Environmental Stimuli and the Responses of Parasitic Helminths, 2:126
Thurston, H. David, Tropical Agriculture, A Key to the World Food Crisis, 1:29
Ting, Robert Y., Use of Stable Element Distribution Patterns for Predicting Distribution of Radionuclides in Marine Organisms, 12:1082
Today the Environment, Tomorrow the World, Frederick E. Smith, 4:317
Topics in Population Genetics, B. WALLACE, *Book review* by Jack Bennett, 8:751
Torrie, James H., *Book review* of Principles of Biometry, 6:568
Towards a Theoretical Biology, C. H. WADDINGTON, *Book review* by W. J. Schull, 9:848
Toward an Information System for Biology-Community Activity, Robert E. Gordon, 7:628
Trainer, Daniel O., *Book review* of Introduction to Animal Virology, 4:373
Tropical Agriculture, A Key to the World Food Crisis, H. David Thurston, 1:29
Tryon, Rolla, Taxonomic Problems in the Geography of North American Ferns, 9:790
Tydings, Joseph D., Statement on the Report by the Presidential Committee on Population and Family Planning, 3:206; (*See* Letters), 12:1056

U

Ultrastructure of Fertilization, C. R. AUSTIN, *Book review* by G. B. Marion, 10:941
United States and World Whale Resources, The, J. L. McHugh, 12:1075
Uptake and Translocation of $^{134}Cs$, $^{59}Fe$, $^{85}Sr$ and $^{185}W$ by Banana Plants and a Coconut Plant Following Foliar Application, W. Neill Thomasson, W. Emmett Bolch & J. F. Gamble, 7:613
Urban Botany: Need for a New Science, H. L. Li, 10:882
Use of Stable Element Distribution Patterns for Predicting Distribution of Radionuclides in Marine Organisms, Robert Y. Ting, 12:1082

V

Vaartaja, Olli (*See* Letters), 1:9
Vandervliet, Glenn, Recognition of the Effect of Acidity and Alkalinity upon Microbial Heat Resistance in the 1870's, 2:122
Vernberg, F. John, *Book review* of A Biology of Lower Invertebrates, 1:81
Viruses of Vertebrates, C. ANDREWES & H. G. PEREIRA, *Book review* by Alice I. Goldsby, 2:188
Vogt, James R., Radionuclide Production for the Nuclear Excavation of an Isthmian Canal, 2:138
Voss, Burton E., *Book review* of Biology, 3:273

W

Wagner, W. H., Jr., The Role and Taxonomic Treatment of Hybrids, 9:785
Ward, Jack A. et al. (*See* Letters), 9:773
Water Pollution, Robert D. Hennigan, 11:976
Watson, D. G. et al., Freshwater Ecological Studies in Panama and Colombia, 9:804
Weber, George, Regulation of Enzyme Activity and Synthesis in Mammalian Tissues (Meeting Report), 5:472
Weigel, Robert et al. (*See* Letters), 9:773
Weiss, Francis Joseph, *Book review* of Bio-Organic Chemistry, 5:476; *Book review* of Strahlenbiologie (Radiation Biology), Vol. 95 of Verstandliche Wissenschaft, 6:570
Westheimer, G. *Book brief* of Primitive Nervous System, 8:754
Wetmore, Alexander, *Book brief* of Atlas of the Domestic Turkey (*Meleagris gallopavo*): Myology and Osteology, 6:572
Wetzel, Robert C., Excretion of Dissolved Organic Compounds by Aquatic Macrophytes (Research Report), 6:539
Wiens, John A., *Book review* of Ecological Adaptations for Breeding in Birds, 12:1123
Wilcox, L. V., Jr. et al., Investigative Laboratory Programs in Biology, A position paper of the commission on undergraduate education in the biological sciences, 12:1104
Williamson, Francis S. L., Population Pollution, 11:979
Wilmoth, James H., *Book review* of Six-Legged Science, 3:283
Wilson, Thomas K. & W. Hardy Eshbaugh, Departments of Botany, Passé?, 12:1072
Wolfenbarger, D. O. (*See* Letters), 5:400; 11:964
Woodford, F. Peter, Improving the Communication of Scientific Information, 7:625
Woodwell, George M., Radioactivity and Fallout: The Model Pollution, 10:884
Wooldridge, David P. *Book brief* of Pogonomyrmex Harvester Ants: A Study of the Genus in North America, 10:945
Wooley, B. C. et al., Physical, Chemical, and Biological Activities at the Lunar Receiving Laboratory, 8:712
World Crop Protection, Vol. 1, Pests and Diseases, J. H. STAPLEY & F. C. H. GAYNER, *Book review* by Herbert Cole, 12:1124
Wurster, Charles F., DDT Goes to Trial in Madison, 9:809
Wynne, E. Staten (*See* Letters), 11:965

XYZ

Zar, Jerrold H. (*See* Letters), 8:673
Zavon, Mitchell R., Interactions, 10:892
Zorich, T. M. et al., Hydrologic Redistribution of Radionuclides Around a Nuclear-Excavated Sea-Level Canal, 9:799
Zucconi, F. et al., Promotion of Fruit Abscission with Abscisic Acid (Research Report), 9:815